VOLUME 2 - NO. 6 SEPTEMBER 1994

The Low Band Monitor

September - Circuit

If you are looking for a "sign" that low band propagation is getting better you might start with the month of September 1994.

• The 40 Meter Band has been extraordinary with *FR5HG/E, 5R8DG, 5V7DB, A22MN, VQ9QM and JW0H* being routinely worked by the faithful.

• The 80 Meter Band has delivered *3X0DEX, T30BH* and *VR6DX. ZD8Z* was armchair copy in Colorado at 3.795 one night with my Sony portable! Yes there was some European longpath in September!

• European stations were being worked in the Midwest and Western U.S. as early as September 20. *SM4CAN* worked *W7XR, NW6N, VE7UZ* and *W6AJJ* between 0345 and 0410Z. He thought that *W7XR* was a local!

• Three subscribers*(W0ZV-K1ZM-K9FD)* have already worked all continents on the 160 Meter band this season. This is a full thirty days sooner than last year.

• One of our subscribers *(K9FD)* has already qualified for the 40 Meter 150 Country Award. This is forty-eight days ahead of last year!

The low bands have taken a down turn in early October as this newsletter goes to press, but by all indications propagation is looking much better than last season.

Odds and Ends

• Received a note from Doc, *KD7SO* regarding *JW5NM's* operating schedule. Through October 22nd he will be active on Saturday around 1.830 between 0200 and 0400Z. He will QSY to 3.792 if the band is poor. Between October 27 and November 24 he will be on each Thursday at the same time and frequency.

• Press, *VQ9SS* has been very active on 160 meters. His top band log from last season is printed in this newsletter. Look it over and see if one of your neighbors worked him. Right now I would simply recommend listening for him at both your sunrise and sunset, as he is probably there.

• An early candidate for 80 meter Power Spot™ of the Month for October is *KY0A*. Charlie heard a faint *XU7VK* at 1250Z on 3506 the morning of October 3rd. Can you top this?

• Subscribers are reminded that there is no cost for any of our operating awards. Our certificate has been changed slightly from last years design and is yours for sending us your appropriate log data.

Yagi vs. Four-Square

Rich Chatelain, *AB6ZV* and David Schoen, *N2KK* have a friendly "loser buys dinner" wager this season to see who will work the most countries on 80 Meters.

Competition like this is fun because it tends to inspire the participants to achieve greater success with their efforts.

Most of you know that David runs a Four-Square vertical array. Rich just completed the installation of a Three Element Yagi.

David is located about 75 miles North of Los Angeles, while Rich is in Oregon.

This should provide us all with some insight about which system should be the one of choice on 80 Meters. Operating habits, contest participation and luck will play an important role in this duel. For now I think that most of us would settle for either one of these system.

The Gene Autry Survey

As a young lad growing up in Spokane, Washington, I used to religiously follow the exploits of three Western cowboys, Gene Autry, Hopalong Cassidy and Roy Rogers. Even today most of our readers could probably identify the horses, sidekicks and associated items related to these famous American icons. You remember *Champion* don't you?

Years later I tended to look at these fellows with a more critical eye. I could accept their superior fighting and shooting skills. Perhaps it was possible for Gene, Roy or Hoppy to whip six bankrobbers singlehandedly with their bare fists or shoot a cattle rustler a quarter mile away with a 45 revolver, while riding a horse. Maybe they worked out every day?

What always astounded me was their ability to motivate other people. Gene Autry, for example, would discover that a widow on a ranch eighteen miles out of town had a landslide close the flow of water to her ranch. Without water her prize Angus herd would die.

No problem, Gene would ride *Champion* into town, stop at the local Bar and in one minute have twenty-nine hard drinking, card playing "cowboys", with shovels in hand, riding out to the ranch to dig the poor widow a new and improved mile long canal.

Today we would question Gene's motive for being with the widow, have to obtain a building permit to dig the canal, and submit an environmental impact statement to three government agencies before starting the project. Today, the chances of getting a single Budweiser guzzling, MTV watching "cowboy" out of a bar to dig a ditch is nil.

There's a good chance that todays "cowboy" is a militant gay vegetarian who would actually enjoy seeing the poor widows high cholesterol Angus herd wilt away. Yes, times and attitudes have changed a bit since the 1950's!

The *Low Band Monitor's* reader survey was attempted with a rather naive (Gene Autry) 1950's style assumption. The editor actually thought that a large percentage of the readership would respond. Most surveys of this kind yield a 5 percent response. Due to the nature of low band DXing and the dedication and patience required to excel at this activity it was thought that a large 25 to 35 percent response would be a reality. *We thought that the survey would actually add a sense of professionalism to this segment of the hobby.*

We were wrong! Our yield was a bit over 5 percent. The readership basically ignored our survey and took the more cynical 1990's approach and did not participate.

The poor reader response destroyed any attempt at statistical significance either real or perceived. Our attempt to provide a listing of a good portion of our readership's low band antenna system data linked to seasonal performance failed. Our attempt to statistically evaluate our readerships low band operating habits failed. Our attempt at recognizing our readerships recent new countries worked on the low bands failed. Our innovative look at readership DXpedition performance failed. Our attempt to recognize the all time DXCC totals of our readership failed. Our attempt at reviewing low band equipment selection also failed.

From this point on the *Low Band Monitor's* annual survey will be called the ***Gene Autry Survey*** to commemorate this newsletter's darkest moment.

I would like to personally thank those of you who spent the time to participate in our first survey. Although your data has no real statistical significance this time, you can be assured that you have set the groundwork for future surveys.

For those of you "cowboys" who ignored our first survey we understand how busy you are. We know how complicated your life is and how expensive it is to send a single sheet of paper by first class mail to Elizabeth, Colorado. Some of you might be working two or three jobs just to feed your families. Perhaps your lawyer was not available to help you fill out the survey? Maybe you're too just shy and want to be transparent?

You are all forgiven! Please excuse my pathetic whining! Sometimes I forget that it is the 1990's. The *Low Band Monitor* will be more creative the next time the readership is surveyed.

Lance Johnson - Editor

Low Band DX News

160 Meter Propagation To Midwest

The first favorable propagation this season from Europe on 160 meters was reported by numerous Midwest stations on September 23, 1994. LA2EG, SM5BFJ, HB0/HB9ML, JW5NM, RZ6HW, SM4CAN and SM5EDX were worked by numerous enthusiasts west of the Mississippi River. These openings have typically started around 0130Z and end around 0400Z.

TNX: KY0A AND KV0Q

More Chagos Activity On 160 Meters

Preston Smith, N6SS will be active on 160 meters from now until January 1, 1995 from Chagos Island as VQ9SS. He and Dale, VQ9QM divide time at their shack on weekends. Press operates Saturday night/Sunday morning and Dale operates Sunday night/Monday morning. On September 17 and 18 he was able to work seven North American stations. In October he will start listening and calling during his early evening on a daily basis on the 160 meter band.

TNX: N6SS/VQ9SS

U.S. Low Band Stations Heard In Greece

Manolis, SV1AOZ reported the following U.S. stations during the month of September: 40 Meters - W6TSQ (Sept 19), 80 Meters - AA6TT (Sept 6), 160 Meters - W0ZV (Sept 17). His most difficult path is to the Pacific and Western U.S.

TNX: SV1AOZ

K5VT Joins South Georgia DXpedition

Vince Thompson, K5VT has joined the VP8SGI DXpedition team scheduled to operate from this rare location in January 1995. Al Hernandez, WA3YVN and Jan Heise, WA4VQD, organizers of the operation, solicited the amateur community earlier this year for an additional "high caliber" CW operator to join them in activating South Georgia. Vince's operating credentials were quite acceptable.

TNX: WA3YVN

Beverage Box Offered By ZJ Electronics

ZJ Electronics of Syracuse, New York has a new product offering that will interest low band Dxers. A fully assembled, remote controlled *Beverage Box*™ that integrates a 9:1 matching transformer, 10db preamplifier and broadcast band rejection filter in a single enclosure. The *Beverage Box*™ features simple installation, is weatherproof and has it's own power supply and remote coax head. Available for $74.95 from ZJ Electronics, 6893 Peck Road, Syracuse, NY 13209. (315) 635-7148. Office Hours: are from 2100Z to 0200Z.

TNX: K2ZJ

Southwest Ohio Group Will Try SSB

The 1993 CQWWDX CW Multi-Multi World Champions, J6DX, from the Southwest Ohio Dx Association, will operate in the October SSB portion of the CQWWDX Test in 1994. Low Band DXers should also listen for this group before and after the contest, with the operators using individual calls.

TNX: N8BJQ

Beverage Owners - Check Your Toroids

Beverage Antenna owners who kept their systems up during the summer should check their toroids. Core saturation caused by lightening storms can greatly degrade transformer performance.

TNX: G3SZA

SUMMER DX

FT5XJ 80 Meter Log

July Excitement - by N2KK

A number of low band enthusiasts reported that the month of July offered some excellent low band propagation. Dave Schoen, N2KK, provides us with some definitive proof.

Here is a transcript of Pierre's big July 15 day on 75 meter phone from 1240Z to 1315Z on 3.796 mz.

This session was coordinated by VK6APZ who helped 22 deserving DXers work a truly rare DX station.

VK6APZ	59	59
W7KCZ	33	53
AB6LJ	53	53
N7UA	56	57
W7WT	53	53
W6MMA	33	53
VE7ON	44	53
NI6T	32	53
WM7R	53	53
VK2ANS	55	53
VK2FH	33	53
VK3DZM	47	57
P29VH	35	53
WA6F	33	53
VK5WO	53	53
W6BCQ	33	53
KE7CX	53	53
WB6ICJ	33	53
VK6HD	55	57
KC7LU	35	55
N2KK	57	57
AB6CF	33	53

Pierre advised David that he had also worked a few East coast U.S. stations on Sunday, July 1, but the above list represents the entire West coast group.

Congratulations to those who made this most memorable North American summer 75 meter contact.

SPOT OF THE MONTH CLUB
WINNERS FOR SEPTEMBER
WIN AN EXTRA MONTH'S
SUBSCRIPTION

VE7BS
5W0BL - 1.825 - 1344Z - 12 SEPT
AA6TT
3X0DEX - 3.794 - 0406Z - 6 SEPT
KD7SO
FR5HG/E - 7.005 - 0400Z - 5 SEPT

SEND YOUR SPOTS TO:
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P.O. Box 1047 • Elizabeth, CO 80107 • (303) 646-4630

The Second Season Begins

K9FD Sets New 40 Meter Standard - W0ZV and K1ZM in 160 Meter Shootout

Introduction - For the second consecutive year the *Low Band Monitor* will sponsor an awards program that gives the low band enthusiast a target to shoot for during the winter DX season in North America.

The *160 Meter Award* is fairly simple to achieve; just work all continents during the September 1, through March 31 "Season" and we will add you to our list.

The *80 Meter Award* is based on those stations who work 100 or more countries during this time period.

The *40 Meter Award* is based on those stations who work 150 DXCC countries during this time period.

Each paid subscriber that qualifies for an award will receive a certificate to document the accomplishment.

No QSL's are necessary to qualify for these awards. A copy of your log information is all that is necessary.

The stations who qualify first in each category will receive a plaque to commemorate the achievement.

Last Season - During the 1993 - 1994 low band season 24 stations applied for the 160 Meter Award, 13 stations applied for the 80 Meter Award and 5 stations applied for the 40 Meter Award.

Charles Summers, KY0A of Colorado was first to claim the 160 Meter Award last season in 63 days. Al Hix, W8AH of West Virginia claimed both the 80 Meter Award and the 40 Meter Award in 72 operating days. These were excellent achievements.

160 Meter Horse Race - Bill Tippett, W0ZV and Jeff, Briggs, K1ZM put on a very interesting race for the 160 Meter Award this season, as both entries were received on the same day. Bill finished his WAC at 2318Z on the 17th, while Jeff completed his on the 18th at 0019Z, or one hour later! Congratulations- Bill!

Merv Schweigert, K9FD nailed down the third 160 Meter position with a September 29th completion of the WAC.

160 METER WORKED ALL CONTINENTS 1994-95

NO.	CALL	DATE	AFRICA	ASIA	EUROPE	N. AMER.	OCEANIA	S. AMER.
1	**W0ZV**	09-17-94	VQ9SS	4X4NJ	HB0/HB9NL	VE8HL	ZL2SQ	PT7BZ
2	**K1ZM**	09-18-94	S92SS	4X4NJ	SM5EDX	KA1PE	ZL2SQ	PP7JR
3	**K9FD**	09-29-94	D44BS	4X4NJ	R1FJL	AL7MX	VK2BJ	PY2BW

80 METER WORKED 100 COUNTRIES 1994-95

NO.	CALL	DATE	COUNTRY	STATE	SUBMITTED	LATEST
1	----	--/--/--	------------	---	---	---

40 METER WORKED 150 COUNTRIES 1994-95

NO.	CALL	DATE	COUNTRY	STATE	SUBMITTED	LATEST
1	**K9FD**	09-24-94	USA	ILLINOIS	154	161

40 Meter Machine - Merv Schweigert, K9FD of Red Bud, Illinois decided to go after the 40 Meter Award with gusto.

Using a couple of half-wave slopers that have a single reflector, Merv, K9FD went on an operating tear that one can only describe as amazing. In twenty -four days of operating he worked 154 countries of 40 meters! He also worked the 1B in case the ARRL DX Advisory Committee cahnges it's mind.

Merv said that he had some time on his hands in September and decided to make a run at the award. He averaged around ten hours a day on the air and was not aided by operating in any major contests, although he did work Norway and Finland in the Scandanavian Contest.

He made 133 of the contacts on CW, 17 contacts on SSB and 4 on RTTY. He utilized every morning and evening session, checked into a few DX SSB Nets and even added two new (FR/E and 5V) all time 40 Meter band countries to his total.

Since the initial submission he has upped the total to 161 total 40 Meter countries through October 3, 1994. Simply amazing!

80 Meters - No station has claimed this award as we go to press on October 4, 1994. Merv, K9FD, advised that he was also trying for this one and was at 72 countries on 80 meters. He is located a few miles East of St. Louis, Missouri and has hit the wall that so many other "black hole" stations find.

40 METER CONQUEST BY K9FD

DATE	COUNTRIES	DATE	COUNTRIES
9/01/94	18	9/13/94	6
9/02/94	6	9/14/94	3
9/03/94	12	9/15/94	2
9/04/94	17	9/16/94	6
9/05/94	10	9/17/94	7
9/06/94	4	9/18/94	4
9/07/94	6	9/19/94	2
9/08/94	5	9/20/94	4
9/09/94	3	9/21/94	7
9/10/94	11	9/22/94	4
9/11/94	4	9/23/94	3
9/12/94	4	9/24/94	6

TOTAL = 154 COUNTRIES

Who Is This Guy!

Conclusion - Congratulations to our early winners! These awards are fun and your participation helps our readership track low band propagation.

If you look at last seasons results we seem to be experiencing over a full months lead over last year. If this positive trend continues the low band enthusiast has a very exciting period coming up this winter.

We look forward to receiving your log data during the remainder of the operating season. Perhaps 1994-1995 will have the propagation on the lower frequencies we have been hoping for.

The VQ9SS 160 Meter Logs

An Elite Fraternity - by Preston Smith - N6SS

4L0G	30Jan94	1538	599	599
4S7RO	07Jan94	1725	599	599
4X2A	02Apr94	2244	46901	599
4X4/S53R	28Jan94	2310	599	599
4X4DK	07Jan94	1619	559	559
	29Jan94	1544	599	599
	19Mar94	2257	579	559
4X4NJ	07Jan94	1453	459	599
	29Jan94	1545	599	599
4X4WN	29Jan94	1528	599	599
5B4ADA	30Jan94	0123	599	599
5B4OG	17Apr94	0045	569	579
9A1A	28Jan94	2344	599	599
9A5D	30Jan94	1517	599	599
9H1CG	17Apr94	0038	469	579
9K2MU	28Jan94	2248	599	599
	21Jan94	2315	579	579
9K2ZZ	16Apr94	2344	469	599
9M0A	04Apr94	1314	569	589
9M2AX	29Jan94	1523	599	599
9M2DM	07Jan94	1551	579	579
9V1ZE	11Feb94	2234	589	599
A71CW	28Jan94	2258	599	599
AD1G	19Mar94	2351	559	449
AP2MY	29Jan94	1446	599	599
BV/K1RX	29Jan94	1510	599	599
CT1AOZ	19Mar94	2339	579	559
CT3FN	29Jan94	2245	599	599
DF3GY	19Mar94	2333	559	559
DJ4LK	21Jan94	2249	459	459
DJ6RX	21Jan94	2238	569	589
DK1AA	19Mar94	2240	459	579
DK5SO	22Jan94	0041	459	449
DK7SU	09Apr94	2311	459	569
DK7SV	21Jan94	1739	359	559
DL1ASA	22Jan94	0025	459	449
DL6EN	21Jan94	2220	459	559
EA7BJ	19Mar94	2255	569	559
EY8AM	09Apr94	2359	459	579
F6CNI	22Jan94	0049	559	569
G3KDB	29Jan94	2029	599	599
G3KMA	22Jan94	0028	559	559
G3LNS	21Jan94	2217	459	569
G3MXJ	22Jan94	0030	559	559
G3NKC	28Jan94	2140	569	589
G3OFW	22Jan94	0007	449	559
G3PQA	12Feb94	0044	459	569
G3RPB	21Jan94	2241	459	449
G3VYS	19Mar94	2259	559	559
G4BUO	22Jan94	0104	559	589
G4DBN	22Jan94	0058	559	569
	19Mar94	2301	569	579
HA8BE	30Jan94	1540	599	599
HG6N	29Jan94	1738	599	599
HZ1AB	28Jan94	1845	589	589
	28Jan94	2236	599	599
I3JSS	19Mar94	1844	459	559
I4YSS	29Jan94	2037	599	599
IV3PRK	21Jan94	2227	559	559
JA1CGM	08Jan94	1242	569	579
	29Jan94	1710	599	599
JA1CHN	21Jan94	2139	569	599
JA1HQG	21Jan94	2119	569	569
JA1HQT	21Jan94	2114	569	579
JA1JRK	21Jan94	2117	569	569
JA1YDU	29Jan94	1318	599	599
JA2IVY	29Jan94	1938	599	599
JA2PJC	07Jan94	1438	569	579
JA2XW	21Jan94	2150	569	559
	29Jan94	1940	599	599
JA3BCT	29Jan94	1701	599	599
JA3BVJ	21Jan94	2203	569	569
JA3FYC	21Jan94	2122	569	599
	29Jan94	1942	599	599
JA3ONB	21Jan94	2128	569	579
JA3WNQ	21Jan94	2147	569	559
JA4DND	21Jan94	2125	579	599
JA4EKO	29Jan94	1655	599	599
JA4JKE	21Jan94	2136	569	579
JA4LKB	08Jan94	1356	569	599
JA4LXY	21Jan94	2116	569	579
	29Jan94	1931	599	599
JA5AUC	21Jan94	2140	569	599
JA5BJC	29Jan94	1636	599	599
JA5CBO	21Jan94	2135	569	559
JA5MHD	21Jan94	2137	569	579
JA6ACZ	21Jan94	2112	569	589
	29Jan94	1936	599	599
JA6GCE	29Jan94	1422	599	599
JA6HUG	29Jan94	1950	599	599
JA6IEF	28Jan94	2206	599	599
JA7AO	21Jan94	2138	569	579
	29Jan94	1929	599	599
JA7BXS	21Jan94	2132	569	579
	29Jan94	1813	599	599
JA7OEM	29Jan94	1729	599	599
JA7RBI	29Jan94	1712	599	599
JA7SGV	21Jan94	2133	569	559
JA7ZP	21Jan94	2144	569	559
JA8CDT	21Jan94	2113	569	599
	29Jan94	1726	599	599
JA0DAI	21Jan94	2130	569	579
JE2LPC	29Jan94	1937	599	599
JF4VZT	21Jan94	2146	569	599
JG3ANQ	29Jan94	1707	599	599
JH1CMD	21Jan94	2108	569	559
JH1RES	07Jan94	1705	569	579
	29Jan94	1806	599	599
JH2CFD	07Jan94	1442	569	529
JH2FXK	21Jan94	2127	569	559
JH3CYZ	08Jan94	1221	569	559
JH3VNC	21Jan94	2131	569	589
JH4IFF	21Jan94	2201	569	559
	29Jan94	1721	599	599
JH4UHW	08Jan94	1354	569	599
	29Jan94	1653	599	599
JH5FXP	08Jan94	1402	579	599
JH7CFX	29Jan94	1943	599	599
JH0ZHQ	29Jan94	1935	599	599
JK1GKG	29Jan94	1419	599	599
JR1CVU	21Jan94	2123	569	579
JR2DPL	21Jan94	2120	569	559
JR3GWZ	21Jan94	2142	569	599
JR5JAQ	21Jan94	2129	569	599
JR6PGB	21Jan94	2126	569	599
JR7BDQ	21Jan94	2141	569	569
JR7TEQ	29Jan94	1716	599	599
K1JO	22Jan94	0107	459	599
K1MEM	19Mar94	2345	559	559
K2EK	20Mar94	0011	559	559
K2UO	19Mar94	2343	559	559
K3ANS	19Mar94	2313	559	579
KA1PE	19Mar94	2337	559	579
KH6AT	07Jan94	1628	449	569
KH6CC	07Jan94	1622	559	579
KM1H	19Mar94	2349	559	449
KX3Q	19Mar94	2338	569	559
N3RS	19Mar94	2317	559	549
N4JJ	20Mar94	0029	559	449
N4RJ	29Jan94	0001	599	599
N4WW	19Mar94	2335	559	559
OE5JDL	12Mar94	2359	359	559
OH1XX	21Jan94	2213	569	569
	12Mar94	2319	579	579
OH5NG	12Mar94	1854	459	579
OH6WV	28Jan94	2315	599	599
OK1DTN	19Mar94	2303	569	569
OK1DWJ	20Mar94	0042	569	449
	09Apr94	2325	459	559
OK1DXS	09Apr94	2336	459	579
OK2HI	22Jan94	0109	459	569
OK5W	29Jan94	2011	599	599
OM3CBU	21Jan94	2335	569	579
OM3CQD	09Apr94	2332	459	559
OM3CQR	21Jan94	2231	459	559
OM3NA	22Jan94	0002	559	449
OM3PA	21Jan94	2356	569	559
OM3PC	21Jan94	2303	449	449
OM3PR	19Mar94	1850	459	569
OM3TQX	19Mar94	2304	569	559
OM3TWJ	22Jan94	0018	459	559
OM3TZQ	21Jan94	2235	459	559
OM7A	29Jan94	2012	599	599
OT4T	30Jan94	0001	599	599
OY9JD	29Jan94	1856	599	599
OZ1BTE	20Mar94	0037	569	559
OZ2RH	17Apr94	0008	459	579
OZ8ABE	19Mar94	2329	559	559
PA0XPQ	19Mar94	2331	559	559
RA3DOX	29Jan94	0005	599	599
RA4NBG	29Jan94	1431	599	599
RA0FA	30Jan94	1507	599	599
RK2FWA	29Jan94	2300	599	599
RK6AXS	19Mar94	2307	569	549
RV1CC	16Apr94	2353	459	559
RW9UGK	07Jan94	1700	459	449
RZ4WWB	07Jan94	1615	559	559
	28Jan94	1750	569	579
RZ6HW	10Jan94	1440	459	
S59A	21Jan94	2323	569	579
SL3ZV	28Jan94	2335	599	599
SM3GSK	28Jan94	2323	599	599
SM4HCM	21Jan94	2353	559	469
SM5BFJ	21Jan94	2255	449	559
SM5EDX	21Jan94	2228	559	579
SM6BGG	22Jan94	0012	349	559
SM6CTQ	21Jan94	2346	459	569
SP2EWQ	19Mar94	2231	459	589
SP7GIQ	29Jan94	2025	599	599
SP9GDB	19Mar94	2244	459	579
SV8ZS	21Jan94	1724	459	559
UA3PTW	11Feb94	2315	569	559
UA4PPR	07Jan94	1715	559	559
UA4PWA	29Jan94	1438	599	599
UA4WGU	07Jan94	1608	559	579
UA4WJA	12Mar94	2328	459	579
UA4WJB	09Apr94	2232	359	579
UA6JQ	07Jan94	1613	559	579
UA9SAB	16Apr94	2334	459	559
UA0LS	29Jan94	1553	599	599
UC2LEG	21Jan94	2055	449	449
UN7M	30Jan94	1528	599	599
UR6IM	17Apr94	0001	459	579
UT7IY	28Jan94	1758	579	599
UX0IB	09Apr94	2342	459	569
UX5MZ	13Mar94	0040	579	559
UZ6LWZ	28Jan94	2312	599	599
V85AA	07Jan94	1400	4/559	579
VE1YX	19Mar94	2310	569	579
VE1ZZ	21Jan94	2246	459	559
	19Mar94	2234	569	569
VE9AA	19Mar94	2320	459	559
VK6HD	09Jan94	1411	459	579
VO1NA	21Jan94	2341	449	569
VQ9AG	29Jan94	1235	599	599
VQ9BB	29Jan94	1540	599	599
VQ9HJ	29Jan94	0056	599	599
VQ9KC	29Jan94	1205	599	599
VQ9QM	29Jan94	1207	599	599
VQ9SF	10Jan94	1338	599	599
	29Jan94	1541	599	599
VQ9TV	29Jan94	1208	599	599
VR2BH	28Jan94	1544	579	569
VS6WV	28Jan94	2219	599	599
W1JZ	19Mar94	2354	559	559
W1OO	19Mar94	2356	559	559
W2QCW?	17Apr94	0025	459	
W3BGN	19Mar94	2312	559	579
W3UM	20Mar94	0009	559	559
W4FX	20Mar94	0019	559	559
W4QM/mm	07Jan94	1601	599	599
WA3DCG	19Mar94	2323	449	559
YB6AVE	28Jan94	2215	599	599
	28Jan94	1645	579	579
YL1WW	29Jan94	2005	599	599
YL2DX	22Jan94	0033	449	449
YL2IP	30Jan94	1533	599	599
YO3APJ	22Jan94	0022	449	559
ZS6EZ	29Jan94	0040	599	599
ZS6NW	29Jan94	0103	599	599

The Gene Autry Survey of 1993 - 1994

Season Performance of Contributors Reviewed - by K0CS

The response to our first Low Band Survey provided some interesting information about the propagation opportunities that were presented during the *Low Band Monitor's* first official operating season.

Low Band Dxer's made some significant gains during the 1993-1994 low band season. Lets review some of these results.

Iron Men - The low band season was defined as September 15, 1993 through April 15, 1994. That is seven months of operating or if you count the days,16+31+30+31+31+28+31+14 = 212 Days. The leading "Iron Men" were:

CALL	DAYS	PERCENT
K1MEM	180	84.9
K4SB	180	84.9
W8UVZ	180	84.9
KD7SO	168	79.2
WA0GFS	164	77.3

This is true dedication! Anyone who operates this much has a very good insight about what is happening on the low bands. Some of the days provided were estimated by the operators, but this parameter provides a very good clue regarding the amount of effort required to build a country total on the low bands.

You have to wonder - do these fellows try the morning and evening sessions each day?

New Country Leaders - It is great to be "new" on a band as almost every country that you work is a new one. Lets look at the top new country leaders worked during this time frame broken out by band country:

CALL	40 NEW	CALL	80 NEW	CALL	160 NEW
N0BIW	117	AB6ZV	151	K9FD	50
AB6ZV	85	KD7SO	37	K8EJ	41
NX0I	45	W4YDD	20	K4SB	26
WD4KXB	26	N0BIW	18	WB9GYU	24
W4YDD	20	WB9Z	18	WA0GFS	22

This list is made up of a number of newcomers to the bands and a few mature DXers who have obviously made some serious station improvements.

N0BIW and AB6ZV had more fun than most of us last season, but remember, they have to QSL these contacts!

DXpedition Proficiency - Any low band season can be defined by ones ability to work the major DXpeditions. These ten operations provide the enthusiast with a good opportunity to evaluate station performance on the 40 - 80 and 160 meter bands with other stations.

There is no better current low band performance parameter than this one.

DXpeditions that were chosen were 3Y0PI, 9G1XA, ZD9SXW, VK9MM, TI9CF, V51Z, ZS9Z, JW5NM, T30CC and VQ9SS.

These operations were located all over the world and provided legitimate opportunities to be worked on 40, 80 and 160 meters.

You can argue the DXpedition selection, but you can't argue that you probably would have liked to have worked most of these stations on one of the low frequency bands.

Lets look at the most proficient stations again broken out by band:

CALL	40DX	CALL	80DX	CALL	160DX
K9FD	9	K4SB	8	KY0A	6
KY0A	8	K9FD	8	W0ZV	6
K4SB	8	N4KG	7	W8UVZ	6
N4KG	6	KY0A	6	K9UWA	5
AB6ZV	6	W0ZV	6	N4JJ	4
KD7SO	6	W1WAI	6		

A number of stations stated that they did not work the DXpeditions that they had already confirmed from prior contacts. That is a very generous policy to have and I am sure that your absence in the pileups is appreciated by your fellow DXers. We all thank you!

All Time Country Totals - Lets recognize those operators who contributed to our survey with the highest country totals. We will again break out the top 5 stations and ties:

CALL	40ALL	CALL	80ALL	CALL	160ALL
N4KG	335	N4JJ	314	W0ZV	252
K1MEM	332	N4KG	314	N4JJ	235
W8UVZ	330	W0ZV	311	K1MEM	228
N4JJ	329	K1MEM	310	WB9Z	222
K4CIA	326	K4CIA	297	W0CD	218

Although these totals are impressive, you wonder how these operators manage to maintain the discipline of checking the bands regularly. On the plus side, their QSL budgets are probably well under control at this stage of the game.

Transceivers - This is certainly not a definitive sample, but it has enough significance to give us an idea regarding what rig the top low band DXers are using. The brand breakdown was lead by *Kenwood* (19 - 66 percent), *Yaesu* (5 - 17 percent), *Icom* (4 - 14 percent) and one *Ten-Tec* (1 - 3 percent).

Lets look at the top five transceiver models:

MODEL	USERS
TS-930S	6
FT-1000	5
TS-940	4
TS-850	3
TS-830	3

The decade old *Kenwood* TS-930 leads the list with six users. This is not an accident as this radio has some magical characteristics in the receive mode that go beyond the scope of this article.

The *Yaesu* FT-1000 is number two on the list and I believe that the positive trend for this fine transceiver will continue in the future.

The only manual-tune transceiver to make the list was the *Kenwood* TS-830. This is still a fine radio for the low band DXer and probably a better buy on the hamfest market than it's solid state counterparts because it is usually easier to service.

Transmit Antennas - The survey doesn't do justice to the complexity of these antenna systems but it does give you an idea what the "other guy" is using. If you are in a pileup on 40 meters with WB9Z (3 EL at 140') you can read the sports pages. If K9UWA (2-2 EL at 160') shows up you can read the editorial pages. If KC7V (4 EL at 100') joins the fray, you might check the classifieds. You get the idea.

Two of the more provocative 80 meter antenna situations are the 2 element *Force 12* yagi at 100' used by KC7V and the *Create* rotatable dipole at 180' at WA0PUJ. These are great systems, but both stations report that they have 80 meter 4 square systems underway or already completed.

The 160 meter 4 sloper system at 140' at K9UWA is very impressive, but KY0A and W0CD counter with three element vertical arrays at 125'. KY0A uses .288 wavelength spacing between elements, while W0CD uses .125 wavelength spacing.

Notice that NX0I is getting excellent 160 meter performance with two 42' phased verticals with a bit of top loading. This array is steerable in three directions.

A few of the contributors to this survey (K4CIA, W1WAI and W0ZV) are in serious station transition phases. Please note that you just don't work 297 countries on 80 meters with a dipole at 20' from the K4CIA QTH - this is just a temporary situation.

The same situation applies to W1WAI, with 241 confirmed on 80 meters; a dipole at 35' is not enough. On the East coast you need a dipole at least 40' high to work 241 countries on 80 meters.

Midwest top band enthusiasts please note that Bill, W0ZV was only able to work 127 countries on 160 meters with his temporary inverted L at 50', from his new QTH in South Carolina. His old 140' tower is back up and he hopes to work some real DX this season.

Receive Antennas - This section varied from city lot to land baron type of systems. Some of the more interesting systems were a 160 meter dipole at 7' at K3ND, 8 Beverages at KY0A, 7 Beverages at WB9Z and a very interesting 200' two wire S.W.A. at K9FD.

If you look closely, you will notice that K9FD worked 50 new 160 meter band countries this season to up his band total to 96. It would appear that K9FD might have a winning receiving system here.

Conclusion - Thanks to everyone who shared their 1993 - 1994 low band season information with our readers. This information will provide the *Low Band Monitor* with a good foundation for measuring low band activity and station performance in the future.

Those of you who contributed have shown the true spirit of amateur radio and of low band DXing.

Gene would be proud. See you next year!

N4JJ	N34- W78	120'	IC-751A	2EL-108'	3EL-V67'	VER-118'	126	2	5	7	329	314	235
				2EL-108'	3EL-V67'	1-BEV		4	4	4	40	40	35
N4KG	N35- W87	600'	TS-830S	2EL-DL-120'	GP-110'	SHUNT-130'	140	0	0	2	335	314	209
				3-BEV	3-BEV	2-BEV		6	7	3	40	40	35
W4YDD	N35- W80	150'	TS-830S	GAP	GAP	-----	150	20	20	0	123	80	0
				GAP	VEE-90'	-----		3	1	0	33	23	0
WA4CTA	N35- W86	700'	TS-950S	2-2EL-100'	DEL-90'	GP-90'	72	5	9	7	309	238	108
				2-2EL-100'	5-BEV	5-BEV		3	4	2	40	38	32
WD4KXB	38N- 77W	365'	TS-930S	DI-70'	DI-70'	DI-70'	81	26	17	3	145	135	45
				5-BEV	5-BEV	5-BEV		3	3	0	33	33	5
K6SSS	34N-117W	1,500'	TS-940S	MINI-HFSQ	MINI-4SQ	VER-50'	124	1	3	1	100	281	11
				MINI-HFSQ	MINI-4SQ	VER-50'		1	3	1	40	40	7
AB6ZV	37N-122W	50'	TS-950DX	2EL-80'	2EL-75'	-----	91	85	151	0	112	167	0
				2EL-80'	2EL-75'	-----		6	5	0	34	34	0
KC7V	33N-111W	2,060'	FT-1000D	4EL-100'	2EL-100'	VER-100'	55	3	3	1	245	183	52
				4EL-100'	2EL-100'	VER-100'		5	3	0	40	38	17
KD7SO	32N-111W	3,000'	FT-1000	4SQUARE	GAP	-----	168	6	37	0	305	161	0
				4SQUARE	GAP	-----		6	5	0	40	40	0
K8EJ	42N- 83W	630'	FT-1000D	2EL-68'	2-SLOP-65'	SHUNT-70'	100	4	9	41	311	243	69
				2EL-68'	2-SLOP-65'	SHUNT-70'		5	5	1	40	40	20
W8UVZ	42N- 85W	1,000'	TS-930S	2EL-80'	SHUNT-90'	SHUNT-90'	180	2	5	6	330	260	206
				2EL-80'	SHUNT-90'	SHUNT-90'		5	6	6	40	40	35
K9FD	38N- 90W	550'	FT-1000	2EL-80'	2-SLOP-80'	INL-75'	150	11	8	50	292	261	96
				2WIRE-SWA	2WIRE-SWA	2WIRE-SWA		9	8	2	40	40	24
K9UWA	41N- 85W	849'	IC-765	2-2EL-160'	4-SLOP-100'	4-SLOP-140'	100	1	2	5	100	100	216
				3-BEV	3-BEV	3-BEV		1	2	5	40	40	39
WB9GYU	44N- 92W	1,200'	TS-930S	3EL-80'	VER-65'	VEE-65'	83	7	10	24	278	221	80
				3EL-80'	VEE-75'	VEE-65'		3	4	3	40	37	28
WB9Z	40N- 87W	650'	FT-1000D	3EL-140'	VER-160'	VER-160'	100	2	18	11	100	265	222
				3EL-140'	7-BEV	7-BEV		2	3	2	40	40	37

RESULTS: *1994 LOW BAND MONITOR* - THE GENE AUTRY SURVEY

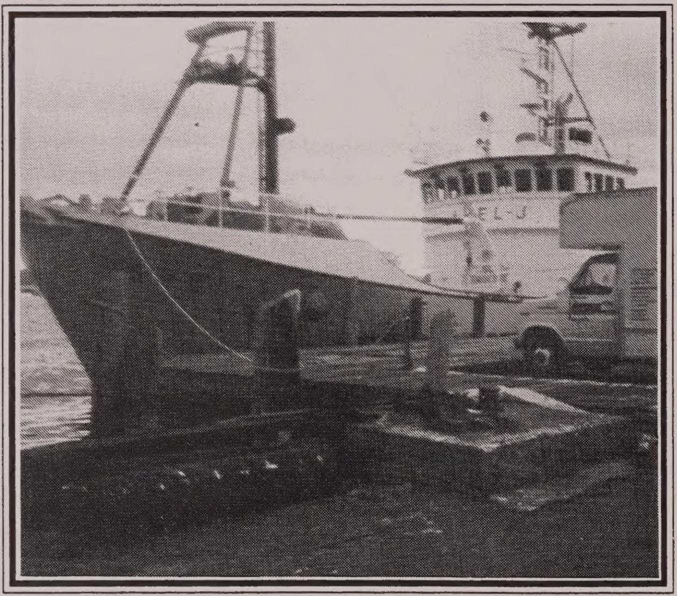
CALL	*LAT-LONG*	*ELEVATION*	*TRANSCEIVER*	*40 XMIT 40 RCV.*	*80 XMIT 80 RCV.*	*160 XMIT 160 RCV.*	*DAYS*	*40N 40D*	*80N 80D*	*160N 160D*	*40A 40Z*	*80A 80Z*	*160A 160Z*
K0CS	39N-104W	6,600'	TS-930S	2EL-115' 2EL-115'	DI-120' 6-BEV	DEL-115' 6-BEV	90	17 5	11 3	12 2	189 40	222 40	80 25
KY0A	39N-104W	6,450'	IC-781	3EL-120' 8-BEV	4EL-SL.5 8-BEV	3EL-V.288 8-BEV	120	12 8	17 6	13 6	252 39	218 39	166 34
N0BIW	39N- 94W	1,050'	TS-850S	2EL-75' 2EL-75'	G5RV-45' G5RV-45'	SHUNT-60' SHUNT-60'	81	117 5	18 3	2 0	168 32	68 24	25 13
NX0I	39N- 94W	923'	TS-940S	3EL-120' 3EL-120'	2EL-V42' 2EL-V42'	2EL-V-42' 2EL-V-42'	107	45 3	16 4	12 1	205 40	141 34	118 29
W0CD	42N- 85W	850'	TS-930S	RDI-75' RDI-75'	3EL-V.25 3EL-V.25	3EL-V.125 3EL-V.125	73	2 2	3 3	6 3	100 39	100 39	218 34
W0ZV	36N- 78W	480'	TS-930S	INL-50' 1-BEV	INL-50' 1-BEV	INL-50' 1-BEV	108	0 0	4 6	15 6	100 40	311 40	252 38
WA0GFS	42N- 94W	1,100'	TS-430S	DI-50' DI-50'	DI-60' DI-60'	DI-65' DI-65'	164	8 3	17 3	22 0	136 26	139 29	21 11
WA0PUJ	47N- 94W	1,324'	TS-850S	3EL-160' 3EL-160'	RDI-180' 5-BEV	VEE-155' 5-BEV	109	2 2	4 4	1 1	148 34	156 34	24 13
K1MEM	42N- 71W	280'	OMNI-VI	2EL-95' 2EL-95'	2EL-V66' 2EL-V66'	VEE-65' 1-BEV	180	2 6	2 7	2 3	332 40	310 40	228 36
W1WAI	42N- 72W	345'	TS-850S	DI-35' DI-35'	DI-35' DI-35'	VEE-45' VEE-45'	48	5 5	15 6	5 1	300 40	241 36	162 29
WB2P	41N- 73W	265'	TS-940S	2EL-100' 2EL-100'	SL.25-80' SL.25-80'	SL.25-80' SL.25-80'	107	1 3	6 2	5 2	309 40	264 40	161 28
K3ND	40N- 75W	520'	TS-830S	2EL-72' 2EL-72'	VER-62' VER-62'	VER-62' DI-7'	75	14 5	10 3	10 2	234 38	191 33	105 22
K4CIA	35N-78W	415'	IC-761	DI-20' DI-20'	DI-20' DI-20'	INL-20' INL-20'	24	0 0	1 1	0 0	326 40	297 38	146 26
K4SB	38N- 84W	976'	TS-940S	3EL-100' 3EL-100'	DEL-100' 2-BEV	INL-92' 2-BEV	180	8 8	8 8	26 2	214 40	156 37	113 23

South Georgia Island Dxpedition

Details of One of the Seasons Rare Ones - by Al Hernandez - WA3YVN

Editor's Note: In 1994 the 3Y0PI operation provided the DX community with an opportunity to work the rarest country in the world, Peter I Island. Another cold one has been targeted by a group of enterprising DXers for 1995, South Georgia Island. Low band enthusiasts should have a legitimate chance to work this rare country because of the efforts of the SGI DXpeditions Group.

Planning - Al Hernandez, WA3YVN and Jan Heise, WA4VQD recently founded the SGI DXpeditions Group. Their vision is to organize and conduct DX operations from high demand DX locations around the world, including many of the low latitude Antarctic Islands. The groups first DXpedition will be to South Georgia Island where they plan to operate for three weeks starting in early January of 1995.



The ABEL-J being loaded with DXpedition gear at Fairhaven, Massachusetts in June of 1994 TNX: W0CD

All Dxpedition gear for four complete HF stations was put aboard the research vessel ABEL-J in June at Fairhaven, Massachusetts. WA3YVN accompanied the freight to Fairhaven and saw all of it safely stored by the ship's crew. This is the same ship that transported the VP8SSI team to the South Sandwich Islands in 1992. Al Hernandez was also one of the co-organizer's and operators of this operation.

Recent Developments - In September the SGI DXpeditions Group, in looking for a high calibre CW operator to assist them, was able to recruit Dr. Vince Thompson, K5VT, as a team member. Vince is one of the best CW operators in the world and has also operated from various remote locations around the world. As a physician, Vince will add another resource to this experienced DXpedition team.

Al, WA3YVN is looking for more CW operators and can be contacted by telephone at (407) 727-0201 or by FAX at (407) 728-8072. The cost is steep, but participation in an operation of this magnitude is one of life's great experiences. This DXpedition is going to be another true adventure.

Transmit Frequencies

1.826	CW
3.522	CW
3.504	CW (Europe)
7.022	CW
7.004	CW (Europe)
1.845	SSB
3.785	SSB
7.065	SSB
3.580	RTTY
7.040	RTTY

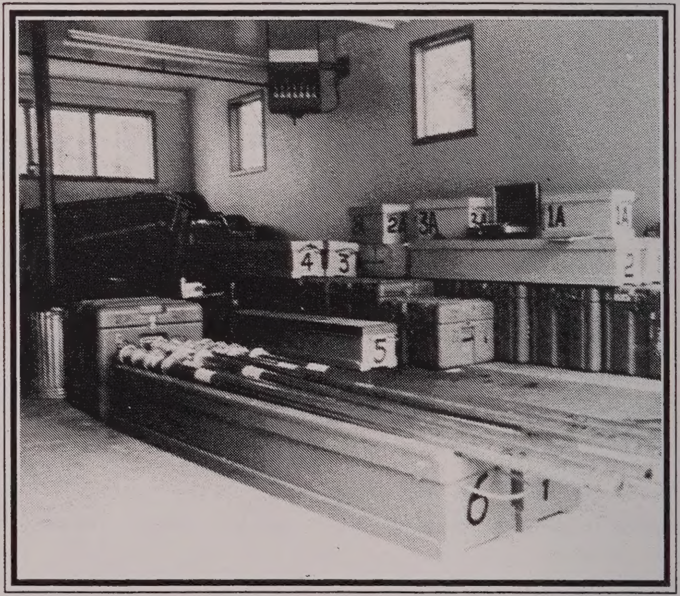
South Georgia Island 1995

TNX: WA3YVN

The QSL route for this operation will be John, W4FRU of *INDEXA*, P.O. Box 5127, Suffolk, VA 23435 U.S.A.

History of the Island - South Georgia Island, 53° 56' S - 34° 45' W, is located 1350 km ESE of the Falkland Islands. South Georgia is administered by the Governor of the Falkland Islands, who is appointed the government of the United Kingdom.

South Georgia Island was the center of whaling operations dating back to the 1800's. One prominent whaling station, Grytviken, located on the north coast, started whaling operations in December 1904 and was an immediate success.



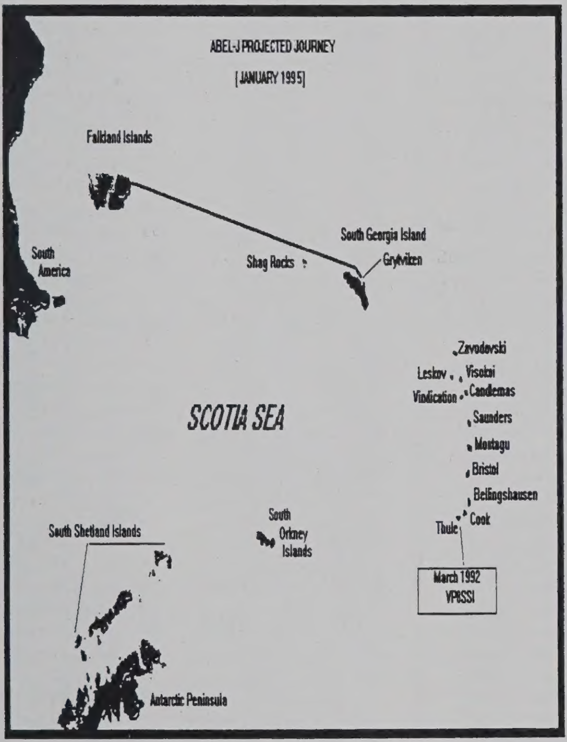
The numbered crates for the 1995 South Georgia Dxpedition. Battle Creek Special is Crate 5 TNX: W0CD

By 1910, Grytviken was producing 55,000 barrels of oil a year and in 1912 it had the distinction of having caught the largest whale ever. This was a blue whale, 122 feet long that weighed over 100 tons.

Grytviken whaling station expanded and changed over the sixty years that it operated. The station was virtually self-sufficient for all its requirements. Transport ships brought down coal and fuel oil, barrels for the whaling oil, harpoons, ropes and food for the station workers.

The station had its own facilities for the catches, including a floating dock, slipway and excellent quay (wharf) facilities. There were foundries, a blacksmith's shop, laboratories and other support facilities.

Life on South Georgia for the station workers was a long and arduous business. Men normally worked a "season", that is the Austral summer from October to March inclusive. The workers came mainly from Norway, but also from Buenos Aires, Brazil and the Falkland Islands. They lived in the barracks at the rear of the station. Some 500 men were employed during the catching season. This number was reduced to less than 100 during the winter. The work days were long, 6:00 am to 6:00 pm, with a break for lunch. Catcher crews had to endure the hardship of long periods of cold and danger in freezing and stormy Scotia seas.



A map showing the relationship of the derelict Grytviken whaling station and the Falklands TNX: WA3YVN

Whaling at Grytviken continued without a break through two World Wars and during this period the company provided essential supplies to the British Government, particularly whale oil for edible fats and glycerin for explosives.

Meanwhile, the other whaling stations in South Georgia closed down. Norwegian whaling ceased at Grytviken in 1962 but between 1963 and 1965 the station was leased to a Japanese company.

Whaling ended at Grytviken in 1965 simply because the whale stocks had been depleted. Whales unfortunately, are now only occasionally seen in the bays and waters around South Georgia.

The South Georgia Island Dxpedition will be conducted from the now derelict Gryviken whaling station.

Low Band operating activity is planned in earnest with the *Battle Creek Special* system being loaded on the ABEL-J in June, along with the other equipment.

South Georgia Island 160 Meter Tea Bag Drive

Top Band enthusiasts are urged to send the SGI DXpedition Group a fresh tea bag with your Call Sign noted on the bag.

This tea bag donation will be your way of showing your support for as much 160 Meter Operation as possible.

The Battlecreek Special Group of W0CD, K8GG and W8UVZ have provided an antenna for this team.

The least *Low Band Monitor* subscribers can do is provide some refreshment.

SEND TO:

SGI DXpeditions
P.O. Box 2235
Melbourne, FL 32902
U.S.A.

LOW BAND MONITOR POWER SPOTS - SEPTEMBER 1994

TNX: N8HTT - W8TN - KD7SO - N2KK - SV1AOZ - KC7V - AA6TT - W8AH - KD7SO - K1ZM - K9FD - K9AY W1WAI - SM4CAN - NX0I - KC7V - WA3YVN - W8UVZ - K3ND - WB9Z - WA0GFS - W0ZV - VE7BS - KY0A

40 METERS

7007.0	JP1AVZ/JD1	24-Sep-1994	1420Z
7007.6	UY2VM	24-Sep-1994	1401Z
7004.9	HS1OVH	24-Sep-1994	1333Z
7003.5	BV2BI	24-Sep-1994	1342Z
7004.2	BV7GC	24-Sep-1994	1342Z
7008.4	JG1SHT/JD1	24-Sep-1994	1321Z
7016.0	C21/ZL1AMO	24-Sep-1994	1117Z
7007.6	JE1XVH/JD1	24-Sep-1994	1058Z
7002.4	C21/IG	24-Sep-1994	1052Z
7057.0	XX9AS	24-Sep-1994	1032Z
7003.4	C21/IG	24-Sep-1994	1012Z
7008.0	NH2G	24-Sep-1994	1010Z
7006.0	FY5GJ	24-Sep-1994	0958Z
7077.8	YW5RY	24-Sep-1994	0917Z
7004.1	SM4CAN	24-Sep-1994	0645Z
7002.6	TA2T	24-Sep-1994	0644Z
7006.2	ZA1AJ	24-Sep-1994	0438Z
7050.0	A22MN	24-Sep-1994	0433Z
7003.1	ZS6ME	24-Sep-1994	0429Z
7005.9	9J2SZ	24-Sep-1994	0421Z
7002.5	FR5HG/E	24-Sep-1994	0415Z
7001.5	1B/KU0J	24-Sep-1994	0325Z
7017.3	UR7GR	24-Sep-1994	0315Z
7029.0	YO9YE	24-Sep-1994	0304Z
7012.4	T99W	24-Sep-1994	0253Z
7003.7	SY1MF	24-Sep-1994	0253Z
7005.7	YS1XS	24-Sep-1994	0239Z
7005.1	3B8CF	24-Sep-1994	0232Z
7008.8	T99W	24-Sep-1994	0218Z
7002.3	DL4ABJ	24-Sep-1994	0203Z
7000.9	1B/KU0J	24-Sep-1994	0158Z
7004.0	SY1MF	24-Sep-1994	0204Z
7005.0	5V7DB	24-Sep-1994	0123Z
7011.3	TA2BO	24-Sep-1994	0059Z
7005.1	5V7DB	24-Sep-1994	0055Z
7001.4	1B/KU0J	24-Sep-1994	0020Z
7003.9	ZA1J	24-Sep-1994	0027Z
7004.7	OY1CT	24-Sep-1994	0022Z
7005.2	5V7DB	24-Sep-1994	0020Z
7001.8	1B/KU0J	24-Sep-1994	0016Z
7002.0	TK/HB9ASZ	24-Sep-1994	0018Z
7004.1	ZA2J	24-Sep-1994	0005Z
7013.3	OM3CAQ	24-Sep-1994	0000Z
7011.0	UA1ZO	23-Sep-1994	2359Z
7002.0	TK/HB9ASZ	23-Sep-1994	2351Z
7007.5	UE6LRD	23-Sep-1994	2333Z
7003.5	ZA1J	23-Sep-1994	2333Z
7002.8	9Q5AGD	23-Sep-1994	2325Z
7009.9	OM5TX	23-Sep-1994	2310Z
7004.5	ZA1Z	23-Sep-1994	2108Z
7005.2	GI4XFR	23-Sep-1994	2054Z
7001.3	9K2MU	23-Sep-1994	2046Z
7014.0	FR5DN	23-Sep-1994	1424Z
7013.1	3D2QB	23-Sep-1994	1358Z
7009.6	8N3ITU	23-Sep-1994	1342Z
7014.2	FR5DN	23-Sep-1994	1318Z
7013.0	3D2QB	23-Sep-1994	1301Z
7008.5	C21/IG	23-Sep-1994	0959Z
7008.0	FM8ZZ	23-Sep-1994	0441Z
7009.9	9I30ZIN	23-Sep-1994	0437Z
7001.0	9J2SZ	23-Sep-1994	0405Z
7002.0	FR5HG/E	23-Sep-1994	0320Z
7003.0	SV1AOZ	23-Sep-1994	0313Z
7010.3	UY2VM	23-Sep-1994	0312Z
7002.7	OD5DX	23-Sep-1994	0305Z
7005.5	5R8DG	23-Sep-1994	0308Z
7012.0	UX0HA	23-Sep-1994	0301Z
7003.4	UH6SH	23-Sep-1994	0249Z
7001.0	R1FJL	23-Sep-1994	0252Z
7015.6	JW0H	23-Sep-1994	0246Z
7007.0	4W6SM	23-Sep-1994	0241Z
7004.0	3B8CF	23-Sep-1994	0248Z
7014.0	JW0H	23-Sep-1994	0230Z
7004.0	3B8CF	23-Sep-1994	0211Z
7005.8	UR0IW	23-Sep-1994	0208Z
7033.4	JW0H	23-Sep-1994	0211Z
7009.4	LZ1JZ	23-Sep-1994	0143Z
7011.4	HC5AI	23-Sep-1994	0141Z

40 METERS

7006.1	LZ2LP	23-Sep-1994	0136Z
7014.8	JW0H	22-Sep-1994	2359Z
7007.6	5Z4FM	22-Sep-1994	1452Z
7005.0	5R8DL	22-Sep-1994	1433Z
7007.5	JK1MGC/JD1	22-Sep-1994	1359Z
7003.3	NH2G	22-Sep-1994	1203Z
7008.8	C21/IG	22-Sep-1994	1121Z
7004.0	9Y4VU	22-Sep-1994	1033Z
7008.1	C21/IG	22-Sep-1994	1001Z
7005.0	V73C	22-Sep-1994	0922Z
7083.0	FO5OU	22-Sep-1994	0738Z
7005.1	TL8NG	22-Sep-1994	0453Z
7004.0	9J2SZ	22-Sep-1994	0418Z
7004.8	ZA1AJ	22-Sep-1994	0350Z
7006.0	1B/KU0J	22-Sep-1994	0326Z
7007.5	HB0/HB9NL	22-Sep-1994	0321Z
7004.1	GB2VK	22-Sep-1994	0155Z
7012.0	9Y4VU	21-Sep-1994	1100Z
7091.8	LX2DW	21-Sep-1994	0455Z
7012.0	HB0/HB9NL	21-Sep-1994	0433Z
7001.5	1B/KU0J	21-Sep-1994	0335Z
7008.8	ZA1AJ	21-Sep-1994	0325Z
7013.7	JW0H	21-Sep-1994	0328Z
7005.0	3B8CF	21-Sep-1994	0243Z
7003.9	JW0H	21-Sep-1994	0220Z
7004.0	UA1ZO	21-Sep-1994	0034Z
7007.0	Z32ZM	21-Sep-1994	0028Z
7006.0	5R8DL	21-Sep-1994	0000Z
7003.6	RW6PA	20-Sep-1994	1509Z
7004.0	5R8DG	20-Sep-1994	1426Z
7004.2	9M8FC	20-Sep-1994	1420Z
7006.0	9M8FC	20-Sep-1994	1334Z
7012.0	JE1XVH/JD1	20-Sep-1994	1259Z
7008.1	5Z4FO	20-Sep-1994	0447Z
7006.5	9J2SZ	20-Sep-1994	0423Z
7003.5	JW0H	20-Sep-1994	0407Z
7005.0	ZA1AJ	20-Sep-1994	0410Z
7005.4	JW0H	20-Sep-1994	0352Z
7002.0	SV1CDX	20-Sep-1994	0330Z
7004.5	4Z5BZ	20-Sep-1994	0329Z
7004.7	JW0H	20-Sep-1994	0249Z
7007.4	FY5GJ	20-Sep-1994	0009Z
7007.5	TU2XZ	19-Sep-1994	2326Z
7001.0	Z31GB	19-Sep-1994	2306Z
7001.9	Z31GB	19-Sep-1994	2251Z
7010.4	UR7GM	19-Sep-1994	2251Z
7002.2	R1FJL	19-Sep-1994	2201Z
7005.0	4K8F	19-Sep-1994	2143Z
7003.3	BV0ARL	19-Sep-1994	1301Z
7004.1	FK8GJ	19-Sep-1994	0638Z
7198.0	V63JC	19-Sep-1994	0630Z
7004.3	5W1GC	19-Sep-1994	0425Z
7004.1	FR5HG/E	19-Sep-1994	0335Z
7007.3	ZA1AJ	19-Sep-1994	0257Z
7005.9	1B/KU0J	19-Sep-1994	0158Z
7004.8	VQ9QM	19-Sep-1994	0024Z
7007.4	IS0OMH	18-Sep-1994	2358Z
7001.4	1B/KU0J	18-Sep-1994	2352Z
7000.3	A71AN	18-Sep-1994	2153Z
7004.4	9Q5AGD	18-Sep-1994	2146Z
7007.2	HZ1AB	18-Sep-1994	1424Z
7002.4	ZD8Z	18-Sep-1994	0425Z
7011.8	OH0AL	18-Sep-1994	0207Z
7026.9	A22MN	18-Sep-1994	0049Z
7012.1	OH0BH	18-Sep-1994	0021Z
7067.5	9A1BHI	17-Sep-1994	2305Z
7078.8	9N1KY	17-Sep-1994	2130Z
7003.6	JG1SHT/JD1	17-Sep-1994	1448Z
7007.1	FR5DN	17-Sep-1994	1407Z
7007.1	BV2BI	17-Sep-1994	1354Z
7013.0	BV4DD	17-Sep-1994	1324Z
7007.9	BZ5HAN	17-Sep-1994	1309Z
7079.5	VK9NS	17-Sep-1994	0635Z
7001.0	FK8GJ	17-Sep-1994	0630Z
7080.0	VP8BKT	17-Sep-1994	0543Z
7013.5	7P8SR	17-Sep-1994	0506Z
7007.1	LY1HS	17-Sep-1994	0439Z
7000.8	OM5XX	17-Sep-1994	0438Z

40 METERS

7002.9	UY2HM	17-Sep-1994	0427Z
7012.0	7P8SR	17-Sep-1994	0425Z
7002.9	9A2AJ	17-Sep-1994	0316Z
7004.0	1B/KU0J	17-Sep-1994	0313Z
7012.8	UR7GR	17-Sep-1994	0312Z
7005.3	5R8DL	17-Sep-1994	0309Z
7003.9	ZS6QU	17-Sep-1994	0104Z
7056.8	A22MN	16-Sep-1994	2357Z
7004.0	TT8/F5IXR	16-Sep-1994	2310Z
7002.5	LZ1ND	16-Sep-1994	2126Z
7006.9	9A3MA	16-Sep-1994	2047Z
7055.0	T99A	16-Sep-1994	2019Z
7053.0	LX1IQ	16-Sep-1994	2004Z
7053.0	LX1AM	16-Sep-1994	2003Z
7053.0	J28RP	16-Sep-1994	1944Z
7002.6	UA0LEC	16-Sep-1994	1441Z
7004.0	UY2VM	16-Sep-1994	1402Z
7007.2	DU7BD	16-Sep-1994	1412Z
7010.0	UA0DC	16-Sep-1994	1357Z
7003.0	5W0BL	16-Sep-1994	1330Z
7008.1	FR5DN	16-Sep-1994	1308Z
7003.0	5W0HL	16-Sep-1994	1121Z
7009.3	KH8BB	16-Sep-1994	1035Z
7010.0	9H1HZ	16-Sep-1994	0918Z
7000.7	5W1GC	16-Sep-1994	0511Z
7004.0	TL8NG	16-Sep-1994	0500Z
7003.9	Z32JA	15-Sep-1994	2336Z
7007.2	SV1AKV	15-Sep-1994	2206Z
7006.3	FR5DN	15-Sep-1994	0311Z
7005.2	R3/AA5NK	15-Sep-1994	0224Z
7002.2	S53CAB	15-Sep-1994	0002Z
7000.9	1B/KU0J	14-Sep-1994	2316Z
7005.4	9J2SZ	14-Sep-1994	2301Z
7004.4	EA9KQ	14-Sep-1994	2304Z
7005.6	FK8GJ	14-Sep-1994	1455Z
7011.1	ZS6CDP	14-Sep-1994	1443Z
7005.0	FR5HG/E	14-Sep-1994	1424Z
7007.1	FR5BT	14-Sep-1994	1328Z
7007.1	FR5DN	14-Sep-1994	1327Z
7008.7	VR2BH	14-Sep-1994	1219Z
7010.8	5W1GC	14-Sep-1994	0505Z
7022.0	9I30ZIN	14-Sep-1994	0505Z
7025.3	Z21HS	14-Sep-1994	0422Z
7003.7	HB0/HB9NL	14-Sep-1994	0328Z
7005.0	Z31PK	14-Sep-1994	0330Z
7012.1	7P8SR	14-Sep-1994	0259Z
7003.4	ZA1J	14-Sep-1994	0204Z
7006.4	9A900PAX	14-Sep-1994	0002Z
7001.2	4Z5DB	13-Sep-1994	2356Z
7008.0	TU2XZ	13-Sep-1994	2346Z
7003.2	DL5VJ/DU1	13-Sep-1994	1405Z
7007.3	UN7LW	13-Sep-1994	1351Z
7007.0	T30BH	13-Sep-1994	1158Z
7006.0	VK9NS	13-Sep-1994	0948Z
7002.1	FK8GJ	13-Sep-1994	0907Z
7004.4	PS8RW	13-Sep-1994	0850Z
7198.0	VR6DB	13-Sep-1994	0649Z
7079.2	CE8EIO	13-Sep-1994	0513Z
7002.3	FR5HG/E	13-Sep-1994	0436Z
7008.1	HB0/DL5YM	13-Sep-1994	0423Z
7007.8	7P8SR	13-Sep-1994	0253Z
7016.8	UR7GR	13-Sep-1994	0234Z
7002.9	VQ9KC	12-Sep-1994	1217Z
7014.0	T30BH	12-Sep-1994	1212Z
7008.0	V73GT	12-Sep-1994	1111Z
7007.8	FO5OU	12-Sep-1994	0505Z
7003.0	Z21HS	12-Sep-1994	0424Z
7009.0	EA6NB	12-Sep-1994	0315Z
7005.0	HB0/DL2HYM	12-Sep-1994	0231Z
7003.4	6W6JX	12-Sep-1994	0135Z
7005.0	5W1GC	10-Sep-1994	1122Z
7009.1	T30BH	10-Sep-1994	1119Z
7005.0	5W1GC	10-Sep-1994	1032Z
7198.0	VR6DB	10-Sep-1994	0646Z
7005.0	ZZ8RO	10-Sep-1994	0605Z
7005.5	TR8XX	10-Sep-1994	0551Z
7026.7	9I30ZIN	10-Sep-1994	0422Z
7005.6	TU2XZ	10-Sep-1994	0402Z

LOW BAND MONITOR POWER SPOTS - SEPTEMBER 1994

TNX: N8HTT - W8TN - KD7SO - N2KK - SV1AOZ - KC7V - AA6TT - W8AH - KD7SO - K1ZM - K9FD - K9AY W1WAI - SM4CAN - NX0I - KC7V - WA3YVN - W8UVZ - K3ND - WB9Z - WA0GFS - W0ZV - VE7BS - KY0A

80 METERS

3798.5	S52CD	21-Sep-1994	0232Z
3791.7	SP1PEA	20-Sep-1994	2309Z
3790.0	EA5CA	20-Sep-1994	2238Z
3795.3	GI0KOW	20-Sep-1994	2231Z
3799.1	WH0AAV	20-Sep-1994	1340Z
3799.1	P29VH	20-Sep-1994	1333Z
3799.1	VK2FMB	20-Sep-1994	1332Z
3779.1	VK2FMB	20-Sep-1994	1332Z
3779.1	P29VH	20-Sep-1994	1331Z
3799.1	7L1WII	20-Sep-1994	1212Z
3512.8	5W1GC	20-Sep-1994	1131Z
3799.5	V63JC	20-Sep-1994	1127Z
3511.0	CO2PL	20-Sep-1994	1125Z
3514.9	5W1GC	20-Sep-1994	1115Z
3790.4	PA0LEG	20-Sep-1994	0539Z
3506.0	HB0/HB9NL	20-Sep-1994	0514Z
3790.1	EA8BYL	20-Sep-1994	0445Z
3790.1	ZS4WA	20-Sep-1994	0443Z
3798.0	PT7BSH	20-Sep-1994	0428Z
3793.0	CT1ESO	20-Sep-1994	0415Z
3790.0	KP4DKE	20-Sep-1994	0325Z
3795.1	VK6LK	19-Sep-1994	2204Z
3509.0	5W1GE	19-Sep-1994	1156Z
3502.0	JA1HQT	19-Sep-1994	1147Z
3796.0	P29VH	19-Sep-1994	1141Z
3796.0	VK3DZM	19-Sep-1994	1112Z
3799.1	PJ4/WA3LRW	19-Sep-1994	1100Z
3501.0	5W1GC	19-Sep-1994	1024Z
3507.5	VP8GAV	19-Sep-1994	1019Z
3798.5	PJ4/WA3LRO	19-Sep-1994	1008Z
3795.0	YV5FGL	19-Sep-1994	1001Z
3799.1	HK4DRG	19-Sep-1994	0934Z
3799.5	VK9NS	19-Sep-1994	0932Z
3505.0	5W1GC	19-Sep-1994	0926Z
3795.0	PJ4/WA3LRO	19-Sep-1994	0505Z
3798.1	CM8GV	19-Sep-1994	0326Z
3795.0	GM3UHT	18-Sep-1994	2325Z
3799.7	VK6APZ	18-Sep-1994	2153Z
3795.2	VK6LK	18-Sep-1994	2149Z
3799.7	VK6ACY	18-Sep-1994	2147Z
3501.4	ZL2AGY	18-Sep-1994	1122Z
3792.3	TI2LL	18-Sep-1994	1114Z
3794.0	ZD8Z	18-Sep-1994	0526Z
3508.5	OZ1LO	18-Sep-1994	0314Z
3515.1	SM3EVR	18-Sep-1994	0308Z
3511.6	SM5GMG	18-Sep-1994	0305Z
3514.3	SK7OL	18-Sep-1994	0127Z
3793.8	JW0C	18-Sep-1994	0047Z
3793.3	9G1MR	18-Sep-1994	0003Z
3797.0	YV5FGL	18-Sep-1994	0007Z
3794.9	LA6EIA	17-Sep-1994	2349Z
3791.2	G3FPQ	17-Sep-1994	2320Z
3794.7	OZ8BV	17-Sep-1994	2314Z
3798.0	PA0IJM	17-Sep-1994	2311Z
3795.1	VK6LK	17-Sep-1994	2240Z
3508.3	BV4DW	17-Sep-1994	1405Z
3799.0	VK5PO	17-Sep-1994	1158Z
3795.0	ZL4BO	17-Sep-1994	1056Z
3507.0	VK6HD	17-Sep-1994	1032Z
3790.0	AH6JR	17-Sep-1994	1022Z
3515.0	VK3ELB	17-Sep-1994	1026Z
3507.0	ZL2AP	17-Sep-1994	1017Z
3506.0	T30BH	17-Sep-1994	1013Z
3514.0	5W1GC	17-Sep-1994	1002Z
3798.0	FM5DN	17-Sep-1994	0947Z
3790.0	TI5RLI	17-Sep-1994	0946Z
3504.0	ZL2SQ	17-Sep-1994	0930Z
3507.0	ZL3ABV	17-Sep-1994	0929Z
3505.0	CX4SS	17-Sep-1994	0928Z
3505.5	ZL2SQ	17-Sep-1994	0913Z
3795.0	VP5JM	17-Sep-1994	0602Z
3507.5	VP2EST	17-Sep-1994	0537Z
3794.0	EA8PP	17-Sep-1994	0509Z
3791.2	CT1ESO	17-Sep-1994	0500Z
3508.5	ZS1AZB	17-Sep-1994	0454Z
3507.0	OS8RD	17-Sep-1994	0445Z
3798.0	V44NK	17-Sep-1994	0354Z
3507.4	OM5TD	17-Sep-1994	0353Z

80 METERS

3507.0	HB0/HB9NL	17-Sep-1994	0322Z
3510.0	ZS6QU	17-Sep-1994	0302Z
3513.0	YV1NX	17-Sep-1994	0229Z
3794.0	HA3HV	17-Sep-1994	0157Z
3509.3	YU70F	17-Sep-1994	0138Z
3799.0	KP2AD	17-Sep-1994	0107Z
3793.3	KP4TN	17-Sep-1994	0058Z
3799.7	VK6ACY	16-Sep-1994	2238Z
3793.0	SP1PEA	16-Sep-1994	2326Z
3799.1	EI4EE	16-Sep-1994	2325Z
3795.0	VK6LK	16-Sep-1994	2240Z
3799.7	VK6ACY	16-Sep-1994	2238Z
3795.0	ZL2GRZ	16-Sep-1994	1124Z
3795.5	3D2ER	16-Sep-1994	1116Z
3799.8	VK3DZM	16-Sep-1994	1107Z
3800.0	F6DZU	16-Sep-1994	0532Z
3800.0	F6DZY	16-Sep-1994	0531Z
3800.0	F5SNJ	16-Sep-1994	0527Z
3796.0	EA8PP	16-Sep-1994	0514Z
3796.0	V51E	16-Sep-1994	0501Z
3796.0	CT1ESO	16-Sep-1994	0439Z
3799.9	G0GXT	15-Sep-1994	2347Z
3794.0	EI4EE	15-Sep-1994	2313Z
3799.0	VK6ACY	15-Sep-1994	2217Z
3796.5	JE1OMO	15-Sep-1994	1050Z
3796.5	HI8OMA	15-Sep-1994	1011Z
3507.3	VP2EST	15-Sep-1994	0957Z
3790.5	YV4FJJ	15-Sep-1994	0953Z
3505.0	OF3F	15-Sep-1994	0355Z
3794.0	OE8MOK	15-Sep-1994	0352Z
3797.7	9Y4SF	15-Sep-1994	0345Z
3791.0	HH2LQ	15-Sep-1994	0322Z
3792.0	V44NK	15-Sep-1994	0308Z
3795.0	PZ1DV	15-Sep-1994	0300Z
3797.8	9Y4SF	15-Sep-1994	0254Z
3793.0	8P6GQ	15-Sep-1994	0248Z
3790.0	YV5FGL	15-Sep-1994	0234Z
3796.6	CM6RJ	15-Sep-1994	0207Z
3795.0	EI4EE	14-Sep-1994	2304Z
3793.0	V73OR	14-Sep-1994	1138Z
3799.1	V63JC	14-Sep-1994	1114Z
3796.5	HI8OMA	14-Sep-1994	0955Z
3799.3	VK2FMB	14-Sep-1994	0930Z
3795.0	3X0DEX	14-Sep-1994	0528Z
3799.4	CT1ESO	14-Sep-1994	0509Z
3795.0	3X0DEX	14-Sep-1994	0445Z
3796.1	V44NK	14-Sep-1994	0322Z
3799.0	P29VH	13-Sep-1994	1052Z
3799.0	VK3DZM	13-Sep-1994	1040Z
3799.1	P29VH	13-Sep-1994	1038Z
3789.9	YV5AAX	13-Sep-1994	1020Z
3795.2	HK4DHR	13-Sep-1994	0945Z
3505.0	VP2EST	13-Sep-1994	0935Z
3799.6	V21AK	13-Sep-1994	0359Z
3788.0	P29VH	12-Sep-1994	1135Z
3795.2	XE2Z	12-Sep-1994	1119Z
3505.0	T30BH	12-Sep-1994	1115Z
3799.8	VK6ACY	12-Sep-1994	1104Z
3505.9	ZL2AGY	12-Sep-1994	1103Z
3797.1	JE1OMO	12-Sep-1994	1049Z
3508.9	JA1NUT	12-Sep-1994	1047Z
3798.2	HI8/N2CQR	12-Sep-1994	1026Z
3799.0	Z22JE	12-Sep-1994	0444Z
3508.5	5W0JA	11-Sep-1994	1110Z
3799.5	VK3DZM	11-Sep-1994	1053Z
3799.5	VK3DZM	11-Sep-1994	1053Z
3797.0	VK6WJH	10-Sep-1994	1106Z
3792.0	VR6DB	10-Sep-1994	1042Z
3506.0	VK6HD	10-Sep-1994	1017Z
3769.4	DK2OY	10-Sep-1994	0430Z
3800.0	OE6Z	10-Sep-1994	0417Z
3786.5	IT9PZM	10-Sep-1994	0415Z
3796.0	HH2PK	10-Sep-1994	0357Z
3768.0	DJ4PI	10-Sep-1994	0359Z
3794.0	3X0DEX	6-Sep-1994	0406Z
3510.0	SV1AOZ	6-Sep-1994	0404Z
3796.0	VR6BX	2-Sep-1994	1126Z
3796.0	UA0FM	2-Sep-1994	1045Z

40 METERS

7002.0	J28FD	29-Sep-1994	2225Z
7006.0	FK8GJ	29-Sep-1994	1336Z
7003.6	V73BH	29-Sep-1994	1303Z
7011.5	JI7BCD/JD1	29-Sep-1994	1259Z
7025.0	TL8NG	29-Sep-1994	0503Z
7009.7	9I30ZIN	29-Sep-1994	0425Z
7008.0	UR7GR	29-Sep-1994	0246Z
7003.0	3B8CF	29-Sep-1994	0227Z
7007.3	US9QA	29-Sep-1994	0215Z
7015.0	J88CW	29-Sep-1994	0201Z
7006.2	SV1AKX	29-Sep-1994	0159Z
7006.0	T92A	28-Sep-1994	2319Z
7004.1	ZD8OK	28-Sep-1994	2255Z
7059.1	T99A	28-Sep-1994	1934Z
7008.7	HL2DNU	28-Sep-1994	1452Z
7003.1	T30GI	28-Sep-1994	1135Z
7006.8	3D2RW	28-Sep-1994	1011Z
7006.8	3D2RC	28-Sep-1994	1007Z
7006.1	FK8GJ	28-Sep-1994	0931Z
7004.0	9H1AL	28-Sep-1994	0446Z
7006.0	9J2SZ	28-Sep-1994	0443Z
7008.9	9I30ZIN	28-Sep-1994	0431Z
7003.0	5U7Y	27-Sep-1994	2323Z
7004.5	Z32JA	27-Sep-1994	2143Z
7002.9	UA0DAN	27-Sep-1994	1403Z
7005.9	9J2SZ	27-Sep-1994	0359Z
7006.3	5R8DG	27-Sep-1994	0250Z
7027.4	3B8CF	27-Sep-1994	0245Z
7007.5	FY5GJ	27-Sep-1994	0211Z
7001.5	A61AF	27-Sep-1994	0156Z
7005.0	5V7DB	27-Sep-1994	0040Z
7006.0	R0/LY2BMV	26-Sep-1994	2346Z
7005.4	4K8F	26-Sep-1994	2332Z
7007.6	LZ1PM	26-Sep-1994	2325Z
7004.2	UA1ZO	26-Sep-1994	2315Z
7000.9	Z32JA	26-Sep-1994	2258Z
7018.1	5U7Y	26-Sep-1994	2242Z
7007.2	Z32ZM	26-Sep-1994	2240Z
7000.9	ZD8OK	26-Sep-1994	2242Z
7003.7	X5EBL	26-Sep-1994	2201Z
7007.9	5N0MVE	26-Sep-1994	2152Z
7003.6	5V7DB	26-Sep-1994	2107Z
7003.0	KC6WP	26-Sep-1994	1131Z
7005.6	5R8DG	26-Sep-1994	0342Z
7007.0	3B8CF	26-Sep-1994	0303Z
7034.8	HV3SJ	25-Sep-1994	0535Z
7045.8	HH2PK	25-Sep-1994	0527Z
7018.6	YO3YF	25-Sep-1994	0505Z
7004.2	1B/KU0J	25-Sep-1994	0359Z
7001.0	EA6ZY	25-Sep-1994	0357Z
7002.6	UA0K/RA1WO	25-Sep-1994	0502Z
7001.1	FR5ED	25-Sep-1994	0258Z
7062.0	OX3JM	25-Sep-1994	0347Z
7005.0	OM5XX	25-Sep-1994	0336Z
7067.0	JW8GV	25-Sep-1994	0329Z
7015.4	3X0DEX	25-Sep-1994	0156Z
7041.6	TY1PS	25-Sep-1994	0108Z
7005.0	5V7DB	25-Sep-1994	0104Z
7015.6	C53HG	25-Sep-1994	0036Z
7005.0	5V7DB	25-Sep-1994	0030Z
7001.3	EA6ZY	25-Sep-1994	0048Z
7008.1	T99W	25-Sep-1994	0016Z
7005.0	5V7DB	25-Sep-1994	0016Z
7000.3	ZD8OB	24-Sep-1994	2335Z
7005.7	5V7DB	24-Sep-1994	2337Z
7004.0	9J2SZ	24-Sep-1994	2251Z
7001.4	Z32ZM	24-Sep-1994	2250Z
7001.0	9H1AL	24-Sep-1994	2249Z
7005.0	5V7DB	24-Sep-1994	2242Z
7001.4	3B8CF	24-Sep-1994	2208Z
7031.0	A71CW	24-Sep-1994	2133Z
7030.0	A22MN	24-Sep-1994	2126Z
7001.4	3B8CF	24-Sep-1994	2117Z
7036.0	9K2ZZ	24-Sep-1994	2110Z
7005.1	FR5HG/E	24-Sep-1994	1501Z
7009.0	VR2GC	24-Sep-1994	1441Z
7005.7	UY2VM	24-Sep-1994	1435Z
7007.0	FR5DN	24-Sep-1994	1420Z

LOW BAND MONITOR POWER SPOTS - SEPTEMBER 1994

TNX: N8HTT - W8TN - KD7SO - N2KK - SV1AOZ - KC7V - AA6TT - W8AH - KD7SO - K1ZM - K9FD - N6SS
W1WAI - SM4CAN - NXØI - KC7V - WA3YVN - W8UVZ - K3ND - WB9Z - WAØGFS - WØZV - VE7BS - KYØA

160 METERS

1837.0	KH6CC	27-Sep-1994	0538Z
1830.0	OK1RD	25-Sep-1994	0422Z
1829.1	SM4HCM	25-Sep-1994	0410Z
1833.6	F6CEL	25-Sep-1994	0407Z
1835.0	F6CWA	25-Sep-1994	0517Z
1827.2	SM4CAN	25-Sep-1994	0400Z
1832.8	OZ8ABE	25-Sep-1994	0353Z
1824.5	DK7SU	25-Sep-1994	0456Z
1844.0	EA8PP	25-Sep-1994	0442Z
1830.7	HB0/HB9NL	25-Sep-1994	0436Z
1840.0	OK1KQJ	25-Sep-1994	0424Z
1827.5	SM4CAN	25-Sep-1994	0420Z
1831.0	SM5EDX	25-Sep-1994	0355Z
1835.2	OK1KQJ	25-Sep-1994	0354Z
1830.0	LA5SAA	25-Sep-1994	0113Z
1830.2	I1A/1P	24-Sep-1994	1552Z
1831.8	AL7MX	24-Sep-1994	1129Z
1843.0	VK3DQW	24-Sep-1994	1048Z
1831.0	VK5GC	24-Sep-1994	1042Z
1833.2	VK3IO	24-Sep-1994	1039Z
1824.0	HL9HH	24-Sep-1994	1024Z
1908.0	JA1MNP	24-Sep-1994	1022Z
1828.0	AL7MX	24-Sep-1994	1019Z
1832.8	PA0LEF	24-Sep-1994	0550Z
1829.5	DK5SO	24-Sep-1994	0515Z
1831.0	EA5KQ	24-Sep-1994	0511Z
1827.6	DK7SU	24-Sep-1994	0506Z
1829.4	HK7DSZ	24-Sep-1994	0505Z
1834.3	OS6KD	24-Sep-1994	0501Z
1833.7	LA5SAA	24-Sep-1994	0451Z
1838.0	SV1AOZ	24-Sep-1994	0357Z
1836.7	IK0FVC	24-Sep-1994	0356Z
1834.0	OK1RD	24-Sep-1994	0352Z
1829.7	ON4ACG	24-Sep-1994	0346Z
1831.2	SM5EDX	24-Sep-1994	0343Z
1835.0	SV8ZS	24-Sep-1994	0333Z
1829.7	4X4NJ	24-Sep-1994	0326Z
1830.9	JW5NM	24-Sep-1994	0313Z
1827.0	CO1RH	24-Sep-1994	0245Z
1832.8	SM5EDX	24-Sep-1994	0235Z
1829.7	G3ZFC	24-Sep-1994	0236Z
1830.7	JW5NM	24-Sep-1994	0219Z
1846.0	EA8PP	24-Sep-1994	0202Z
1828.1	YL2DX	24-Sep-1994	0104Z
1834.5	D44BS	24-Sep-1994	0059Z
1833.7	RZ6HW	24-Sep-1994	0058Z
1836.0	S92SS	24-Sep-1994	0007Z
1835.0	S92SS	23-Sep-1994	2353Z
1842.1	EA3JE	23-Sep-1994	2335Z
1842.6	EA8AK	23-Sep-1994	2308Z
1835.0	VK3IO	23-Sep-1994	1036Z
1838.0	VK3OT	23-Sep-1994	1021Z
1833.8	RZ6HW	23-Sep-1994	0157Z
1843.0	KD2JR/VE8	23-Sep-1994	0146Z
1830.8	VK6ABL	22-Sep-1994	1150Z
1834.6	VK6ACY	22-Sep-1994	1134Z
1842.0	VK2FMB	22-Sep-1994	1055Z
1842.0	VK3DQW	22-Sep-1994	1054Z
1832.8	VK5BC	22-Sep-1994	1047Z
1836.0	VK6ABL	22-Sep-1994	1019Z
1834.0	CO6CG	22-Sep-1994	1010Z
1829.0	GD4BEG	22-Sep-1994	0545Z
1832.0	AL7MX	22-Sep-1994	0516Z
1831.1	ON7PQ	22-Sep-1994	0505Z
1834.5	OS8RD	22-Sep-1994	0452Z
1827.9	SV8ZS	22-Sep-1994	0410Z
1835.6	OK1DOT	22-Sep-1994	0403Z
1830.1	DK7SU	22-Sep-1994	0353Z
1832.9	OK1DOT	22-Sep-1994	0351Z
1842.0	VK2FMB	21-Sep-1994	1008Z
1832.8	HB0/HB9NL	21-Sep-1994	0446Z
1830.0	OS6KD	21-Sep-1994	0437Z
1828.0	SM5BFJ	21-Sep-1994	0431Z
1837.0	SV8ZS	21-Sep-1994	0430Z
1833.5	DK7SU	21-Sep-1994	0349Z
1833.9	G3ZFC	21-Sep-1994	0217Z
1836.1	GI0KOW	21-Sep-1994	0024Z
1834.4	SV8ZS	20-Sep-1994	0340Z

160 METERS

1832.8	HB0/HB9NL	20-Sep-1994	0333Z
1832.9	OK1DX/MM	20-Sep-1994	0219Z
1831.9	CO6CG	20-Sep-1994	0216Z
1840.0	KD2JR/VE8	20-Sep-1994	0055Z
1832.5	VK5BC	19-Sep-1994	1042Z
1824.0	5W1GC	19-Sep-1994	1007Z
1847.0	VE8/KD2JR	19-Sep-1994	0108Z
1836.9	VK3IO	18-Sep-1994	1059Z
1833.0	VK5BC	18-Sep-1994	1038Z
1834.1	AL7MX	18-Sep-1994	1021Z
1833.7	9A900PAX	18-Sep-1994	0224Z
1840.9	ZB2FK	18-Sep-1994	0031Z
1833.0	VQ9SS	18-Sep-1994	0003Z
1833.0	VQ9SS	17-Sep-1994	2318Z
1834.0	VK3OT	17-Sep-1994	1115Z
1832.0	VK3QI	17-Sep-1994	1019Z
1824.9	VK4YB	17-Sep-1994	1013Z
1825.0	VK2FMB	17-Sep-1994	1020Z
1830.2	ZL2SQ	17-Sep-1994	0955Z
1835.1	AL7MX	17-Sep-1994	0523Z
1830.8	KH6CC	17-Sep-1994	0456Z
1834.3	DK7SU	17-Sep-1994	0443Z
1841.0	HB9CZA	17-Sep-1994	0440Z
1841.2	HB9CXZ	17-Sep-1994	0432Z
1843.3	F5LQ	17-Sep-1994	0429Z
1830.4	DJ7RD	17-Sep-1994	0429Z
1836.0	SV1AOZ	17-Sep-1994	0351Z
1831.8	HB0/HB9NL	17-Sep-1994	0333Z
1830.5	4X4NJ	17-Sep-1994	0326Z
1840.6	ZB2FK	17-Sep-1994	0034Z
1834.0	EA5BQ	16-Sep-1994	0451Z
1830.4	CM3RP	15-Sep-1994	1050Z
1830.5	DK7SU	15-Sep-1994	0358Z
1842.1	VK4YB	14-Sep-1994	1047Z
1824.0	5WØBL	13-Sep-1994	1255Z
1825.0	5WØBL	12-Sep-1994	1344Z
1828.6	FG5BG	10-Sep-1994	0422Z
1829.2	OM5XX	10-Sep-1994	0414Z
1831.0	VK5BC	6-Sep-1994	1105Z
1844.0	VE8HL	5-Sep-1994	0210Z
1831.0	ZL2SQ	2-Sep-1994	0956Z
1833.0	PT7BZ	2-Sep-1994	0241Z

80 METERS

3790.0	HK3HMQ	29-Sep-1994	1039Z
3798.1	HA3HV	28-Sep-1994	2310Z
3506.0	5W1CG	28-Sep-1994	1339Z
3782.1	TK5BF	28-Sep-1994	0545Z
3504.9	9A2DS	28-Sep-1994	0450Z
3799.7	VK6APZ	27-Sep-1994	0959Z
3790.0	GU2FRO	27-Sep-1994	0624Z
3799.1	XQ8ABF	27-Sep-1994	0400Z
3506.7	HP1XBH	27-Sep-1994	0313Z
3794.3	3X0DEX	27-Sep-1994	0142Z
3799.0	VK6ACY	26-Sep-1994	2156Z
3507.0	HB0/HB9NL	26-Sep-1994	0521Z
3506.6	SP9KR	26-Sep-1994	0132Z
3505.0	5W1GC	25-Sep-1994	1330Z
3795.0	CT4NH	25-Sep-1994	0623Z
3800.9	CM8FN	25-Sep-1994	0617Z
3782.0	OH0BH	25-Sep-1994	0431Z
3799.7	SM5SB	25-Sep-1994	0530Z
3782.0	TK5BF	25-Sep-1994	0525Z
3509.0	OZ2RH	25-Sep-1994	0520Z
3775.0	OH1X	25-Sep-1994	0409Z
3782.2	OH0BH	25-Sep-1994	0406Z
3796.2	SK0HB	25-Sep-1994	0404Z
3506.7	OZ2RH	25-Sep-1994	0515Z
3518.1	9A7AA	25-Sep-1994	0507Z
3792.0	5B4XF	25-Sep-1994	0402Z
3786.9	OZ4MD	25-Sep-1994	0359Z
3789.5	OH2HE	25-Sep-1994	0354Z
3513.5	KL7Y	25-Sep-1994	0500Z
3510.9	9A2DS	25-Sep-1994	0457Z
3795.0	OH0BH	25-Sep-1994	0340Z
3785.8	OH3BZY	25-Sep-1994	0339Z
3515.1	SV1AOZ	25-Sep-1994	0442Z

80 METERS

3513.7	LY2WW	25-Sep-1994	0434Z
3786.9	OZ4MD	25-Sep-1994	0429Z
3511.0	HA2NM/5	25-Sep-1994	0301Z
3501.0	S52ID	25-Sep-1994	0255Z
3798.0	HB3FL	25-Sep-1994	0344Z
3799.7	IT9TKO	25-Sep-1994	0338Z
3795.0	3X0DEX	25-Sep-1994	0314Z
3507.1	OM5TD	25-Sep-1994	0309Z
3790.4	TI2LL	24-Sep-1994	1052Z
3508.6	HL9HH	24-Sep-1994	1047Z
3795.0	TI2LL	24-Sep-1994	1043Z
3785.0	FM5DN	24-Sep-1994	0454Z
3790.2	YT9C	24-Sep-1994	0452Z
3506.2	OS8RD	24-Sep-1994	0436Z
3508.1	EA8QJ	24-Sep-1994	0426Z
3511.1	9A7AA	24-Sep-1994	0425Z
3513.0	PJ8X	24-Sep-1994	0421Z
3794.1	TI2VVR	24-Sep-1994	0420Z
3505.3	OH8RD	24-Sep-1994	0401Z
3511.8	YU6DZ	24-Sep-1994	0400Z
3507.5	OM5TD	24-Sep-1994	0358Z
3799.6	SV1EX	24-Sep-1994	0300Z
3789.8	RA3WA	24-Sep-1994	0234Z
3793.8	CT1ASO	24-Sep-1994	0229Z
3787.0	FY5GJ	24-Sep-1994	0224Z
3790.0	EA8PP	24-Sep-1994	0221Z
3800.9	TI7DBS	24-Sep-1994	0214Z
3794.0	CT1ESO	24-Sep-1994	0217Z
3800.9	TI9DBS	24-Sep-1994	0213Z
3796.1	G0GXT	24-Sep-1994	0116Z
3800.0	FM5DN	23-Sep-1994	2348Z
3511.9	EA8CN	23-Sep-1994	2343Z
3794.9	OZ8BV	23-Sep-1994	2130Z
3502.0	VK6HD	23-Sep-1994	1245Z
3790.0	ZL2SN	23-Sep-1994	1156Z
3503.0	VK4AYN	23-Sep-1994	1143Z
3506.0	VP8GAV	23-Sep-1994	1017Z
3794.9	PJ7/WA7LNW	23-Sep-1994	0406Z
3795.0	PJ7/OH2LVG	23-Sep-1994	0326Z
3504.9	LZ1SB	23-Sep-1994	0321Z
3503.5	LU2BRG	23-Sep-1994	0319Z
3508.9	CX1TM	23-Sep-1994	0252Z
3503.5	HC7SK	23-Sep-1994	0239Z
3505.9	HK0ER	23-Sep-1994	0232Z
3508.7	YV1NX	23-Sep-1994	0215Z
3511.5	LZ2SB	23-Sep-1994	0213Z
3789.0	CX1TM	23-Sep-1994	0201Z
3794.6	PY2ABR	23-Sep-1994	0154Z
3799.0	LU8EEM	23-Sep-1994	0148Z
3507.6	VP2EST	23-Sep-1994	0142Z
3798.9	ZP5MGR	23-Sep-1994	0128Z
3794.8	LU8EEM	23-Sep-1994	0139Z
3794.9	OK1BB	22-Sep-1994	2340Z
3799.4	VK6ACY	22-Sep-1994	2219Z
3799.6	G3PCG	22-Sep-1994	2132Z
3799.6	VK3DZM	22-Sep-1994	1027Z
3795.0	V73C	22-Sep-1994	0941Z
3797.0	PW8TR	22-Sep-1994	0928Z
3795.0	LU8EEM	22-Sep-1994	0840Z
3799.0	ZL4KF	22-Sep-1994	0822Z
3799.0	G3WMX	22-Sep-1994	0734Z
3509.2	HB0/HB9NL	22-Sep-1994	0438Z
3513.9	OK2PLS	22-Sep-1994	0427Z
3790.5	SV1DT	22-Sep-1994	0413Z
3503.8	9A2DS	22-Sep-1994	0345Z
3508.6	LZ2SB	22-Sep-1994	0334Z
3799.8	VK3DZM	21-Sep-1994	1051Z
3507.0	VP8GAV	21-Sep-1994	1032Z
3796.8	VP5JM	21-Sep-1994	1031Z
3505.3	ZL2AGY	21-Sep-1994	1007Z
3797.0	VP5JM	21-Sep-1994	0955Z
3793.4	PW8TR	21-Sep-1994	0953Z
3795.1	FM5DN	21-Sep-1994	0910Z
3507.4	GB301OTA	21-Sep-1994	0548Z
3793.3	YV5FCI	21-Sep-1994	0338Z
3793.3	YV5APF	21-Sep-1994	0337Z
3512.0	LZ2SB	21-Sep-1994	0346Z
3790.1	S52CD	21-Sep-1994	0321Z